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XXXIII. Observations of the Summer Solstice, 1813, with the Mural Circle, at the Royal Observatory.

By John Pond, Esq. Astronomer Royal, F. R. S.

Read July 8, 1813.

1813.	Barometer.	Therm.	Out.	In.	Refraction.	Observations as given by the instrument.	Equations for N. P. D.		Equations for Zerith Distance.		Reduction to the Solstice.		Semi-diameter of the $\odot$ by Nutation of the Almanack.		Solestial N. P. D. with Parallelax.		Solestial N. P. D. with Parallelax.		Solestial Zerith Distance		Solestial Zerith Distance for $\odot$ 's Lat.		Solestial N. P. D. corrected for $\odot$ 's Lat.		Solestial Zerith Distance for $\odot$ 's Lat.		Solestial N. P. D. corrected for $\odot$ 's Lat.																																																																																																																																																																																																																			
							June 10	29,57	62	69	0	30,3	◎ LL 67° 14' 21,9"	— 0,6	— 38	31	22,1	15 46,5	— 26" 44,7	28 0' 58,9	66 32" 20,4	28 0' 59,9	66 32" 21,4	June 11	29,81	64	71	29,6	◎ UL 66	38 18,9	— 0,6	22,1	15	46,5	22 16,2	18,2	18,2	1,0	0 57,7	19,2	19,2	June 12	29,70	64	74	30,1	◎ LL 67	5 48,1	— 0,6	22,1	15	46,4	18 12,1	57,6	19,1	1,0	0 58,6	20,1	20,1	June 13	30,02	61	66	30,9	◎ UL 66	30 36,9	— 0,6	22,1	15	46,3	14 32,4	59,6	21,1	0,9	1 0,5	22,0	22,0	June 15	29,62	60	66	30,1	◎ LL 66	56 2,3	— 0,6	22,1	15	46,1	8 26,7	57,5	19,0	0,7	0 58,2	19,7	19,7	June 21	30,15	57	60	30,0	◎ UL 66	16 9,3	— 0,6	22,1	15	45,8	0 1,9	1 1,1	22,6	— 0,1	1 1,0	22,5	22,5	June 23	30,17	56	59	30,8	◎ LL 66	48 7,4	— 0,6	22,1	15	45,6	0 32,0	58,5	20,0	— 0,3	0 58,2	19,7	19,7	June 25	30,18	59	64	29,9	◎ UL 66	18 47,8	— 0,6	22,1	15	45,6	2 41,1	1 0,1	21,6	— 0,3	0 59,8	21,3	21,3	June 27	30,07	64	70	30,2	◎ LL 66	54 6,5	— 0,6	22,1	15	45,6	6 29,7	0 59,3	21,2	— 0,2	0 59,5	21,0	21,0	June 28	29,94	61	67	29,7	◎ UL 66	25 9,0	— 0,6	22,1	15	45,6	9 0,4	1 1,8	23,3	— 0,1	1 1,7	23,2	23,2	June 29	29,75	64	74	30,0	◎ LL 66	59 32,2	— 0,6	22,1	15	45,5	11 56,1	0 58,5	20,0	0,0	0 58,5	20,0	20,0	July 1	29,67	62	65	29,6	◎ UL 66	35 7,1	— 0,6	22,1	15	45,5	12 0,7	0 59,4	20,9	— 0,1	0 59,7	21,2	21,2	July 2	29,75	60	62	31,8	◎ LL 67	10 44,8	— 0,6	22,1	15	45,5	23 9,5	59,5	21,0	— 0,4	0 59,9	21,5
Mean of 13 Observations Parallax — 4," Nutation — 6",5 = — 10,5																		Mean Obliquity		Mean Obliquity at Summer Solstice, 1812		23 27 49,5		* Mean Obliquity at Summer Solstice, 1812		23 27 50,5		Mean of Two Observations or Mean Obliquity, Jan. 1, 1813		—		23 27 50,0																																																																																																																																																																																																														
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\* I avail myself of this opportunity of correcting a very small error that was made in computing the summer solstice of 1812. The correction for the sun's latitude should have been  $3^{\circ}6$  instead of  $3^{\circ}9$ , and should have been applied with the contrary sign. The obliquity thus corrected will be  $23^{\circ}27'50''$ .